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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/756,866	01/13/2004	Mark A. Jutras	P/144-328	3389

7590 05/24/2004  
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EXAMINER	
PATEL, RAJNIKANT B	
ART UNIT	PAPER NUMBER
2838	

DATE MAILED: 05/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/756,866	Applicant(s) JUTRAS ET AL.	
	Examiner Rajnikant B Patel	Art Unit 2838	PW

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on 01 January 1963.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☐ Claim(s) \_\_\_\_\_ is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 1-63 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Cross et al. (U.S. Patent # 4,745,538).

Cross et al.'s figure 3 discloses claimed subject matters, including a switch mode power supply (abstract line 1), and flyback converter (Abstract line 2-5).

3. Claim 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Pilukaitis et al. (U. S. Patent # 4,903,182).

Pilukaitis et al.'s figure 2, discloses all claimed subject matters, a flyback converter, self oscillating converter (Abstract, line 1-10 and column 2-6, line 1-65).

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3. Claim 5-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Brewer et al. (U. S. Patent # 4,860,185).

Brewer et al.'s figure 2-9 and 14, discloses all claimed subject matters, a DC/DC converter flyback transformer, switching device, a voltage control circuit, an under voltage lockout (column 8, line 25-30), a feedback voltage (column 16 and 29 line 10-50), the second switching device (figure 6), an operational amplifier (column 26, line 55-70).

4. Claims 1 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Majid et al. (U.S. Patent # 6,087,782).

Majid et al.'s figure 1-2, discloses all claimed subject matters. (column 3-6, lines 1-70).

5. Claims 22 is rejected under 35 U.S.C. 102(b) as being anticipated by Schwartz. (U.S. Patent # 5,552,695).

Schwartz's figures 2-4 discloses all the claimed subject matters (column 3, 1-30 and column 4-6, lines 1-65).

6. Claim 1-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Yan. (U.S. Patent # 5,657,220).

Yen discloses claimed invention (figure 2A-B), including DC/DC converter, a flyback converter,

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buck regulator, a flyback transformer, an ON/OFF controller, voltage sensor, an operational

amplifier, voltage divider, a MOSFET, a comparator,

7. Claim 38 is rejected under 35 U.S.C. 102(b) as being anticipated by Clarkin et al. (U.S.

Patent # 4,745,538) or Nguyen (U.S. Patent # 6,249,111).

Clarkin et al.'s figure 8-9 discloses claimed subject matters (column 4, line 10-70, column 5-6,

lines 1-70 and column 8, line 55-70). Similarly Nguyen' figures 1-2 discloses

claimed subject

matters).

### **Claim Rejections - 35 USC § 103**

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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9. Claims 38-63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Umminger

et al. (U.S. Patent # 6,476,589) in combination with Redl (U.S. Patent # 5,734,562).

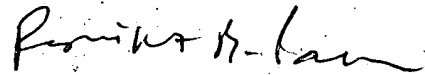
Umminger et al. discloses claimed invention (figure 3A-B and 4), except the utilization of technique for a flyback transformer with primary and secondary windings. Redl teaches the utilization of similar technique for a flyback transformer (figure 3a-c). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Umminger et al.'s converter circuit by utilizing the technique taught by Redl for the purpose of protecting circuit elements.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rajnikant B Patel whose telephone number is 571-272-2082. The examiner can normally be reached on 6.30-5.00; m-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Rajnikant B Patel  
Primary Examiner  
Art Unit 2838

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